REVISED

OPERATING DATA
FOR THE
MODEL CA-5 ADAPTER
WHEN USED WITH
MODEL 6000-6005
ROLL CHART TUBE TESTER

HICKOK

NOTE 1: Check position of tube cap lead as to "G" - grid, "P" - plate and "K" - cathode, before placing top cap on tube.

NOTE 2: (symbol "#" on Roll Chart) Set BIAS dial at 100; press and hold down TEST button while rotating BIAL dial until tube strikes.

NOTE 3: Not used.

NOTE 4: "Cut off" tube section NOT being tested by means of a 30 to 35 volt battery (Eveready 413, or equal). Polarity and connections are indicated in the NOTATIONS column: e. g., NOTE 4: 7-, 2+, indicates connect negative lead to pin 7 and positive lead to pin 2, of any convenient socket on the tester.

CAUTION: Disconnect battery between any change of SELECTORS.

THE HICKOK ELECTRICAL INSTRUMENT CO.
10514 DUPONT AVENUE • CLEVELAND, OHIO 44108
3200-203 REVISED

OPERATING INSTRUCTIONS

for use with

ROLL CHART TUBE TESTERS

To test tubes with the CA-5 Universal Adapter and a Roll Chart Tube Tester, proceed as follows:

a. Connect the adapter to the Roll Chart Tube Tester by inserting the test plug into the Noval socket of the Roll Chart Tube Tester.

b. Set the switches "A", "B" and "C" on the adapter to correspond with the 3-digit number in the column headed "CA5", for the tube to be tested as listed in the Operating Data book. Example: 234 is shown for 6AL11; therefore, set switch "A" on position 2, switch "B" on position 3 and switch "C" on position 4.

c. Proceed to set up the switches and controls of the Roll Chart Tube Tester as shown in the Operating Data book.

d. Place the tube to be tested into the proper socket of the adapter.

e. If the tube to be tested has a top cap, place the top cap connector of the adapter to the cap of the tube and connect the top cap connector of the Roll Chart Tube Tester on the cap connector of the test plug of the adapter cable. The proper cap connector (if any) is shown in the "NOTATIONS" column of the Operating Data book. Example: if the notation column shows "CAP = G" (grid), connect the "G" or "GRID" of the tester with the top cap connector of the Roll Chart Tube Tester to the cap connector of the test plug of the adapter cable. Note: Proper top cap connections to Models 6000 and 6005 Tube Testers are assured by setting the appropriate element selectors to position "X". Example: if "CAP = P" appears in the "NOTATIONS" column, set the plate selector to "X" regardless of the setting specified in the "SELECTORS" column.

f. Turn the Roll Chart Tube Tester on and proceed to test tube in the usual manner as shown in the manual accompanying the particular tester being used. Disregard all references to Hickok Adapter SA-11, code number 1050-177.

TUBE TYPE	FIL.	SELECTORS TESTER	CA5	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
1AD2	1.5	BS-0000-0	002	0	42	F -----	CAP=P ON ADAPTER OK ABOVE DIODES OK
2AH2	2.5	BS-0000-0	002	0	79	F -----	CAP=P ON ADAPTER OK ABOVE DIODES OK
2AS2	2.5	BS-0000-0	002	0	80	F -----	CAP=P ON ADAPTER OK ABOVE DIODES OK
2B-H5	2.0	BT-4208-0	103	23	79	A 2600	
2CW4	2.0	BT-4208-0	103	23	79	A 2600	
2DS4	2.0	BT-4208-0	103	22	79	A 2600	
2DV4	2.0	CT-6107-0	203	27	88	A 4600	
2EG4	2.0	BT-4208-0	103	22	72	A 2500	SET =LINE ADJUST= AT 1425 ON 3000 SCALE.
2N-H11	2.0	BT-4208-0	103	22	79	A 2600	
2N-H12	2.0	CT-6107-0	203	27	88	A 4600	
3AT2	3.0	BS-0000-0	002	0	84	F -----	CAP=P ON ADAPTER OK ABOVE DIODES OK
3AW2	3.0	CR-0000-0	001	0	87	F -----	CAP=P ON ADAPTER OK ABOVE DIODES OK
3BL2	3.0	BS-0000-0	002	0	85	F -----	CAP=P ON ADAPTER OK ABOVE DIODES OK
3BM2	3.0	BS-0000-0	002	0	85	F	OK ABOVE DIODES OK.
3BS2	3.0	CR-0000-0	001	0	85	F	READ ENGLISH ONLY.
4HA7	4.3	BT-9204-0	203	20	76	A 2500	TRIODE NO.1
	4.3	BV-4203-0	045	16	16	A 750	TRIODE NO.2
4HC7	4.3	BT-9204-0	203	12	84	A 3500	TRIODE NO.1
	4.3	BV-4203-0	045	19	27	A 700	TRIODE NO.2
5BC3	5.0	BT-0900-0	000	0	74	D -----	PLATE NO.1
	5.0	BT-0500-0	000	0	82	D -----	PLATE NO.2
5HA7	5.0	BT-9204-0	203	20	76	A 2500	TRIODE NO.1
	5.0	BV-4203-0	045	16	16	A 750	TRIODE NO.2
5HC7	5.0	BT-9204-0	203	12	84	A 3500	TRIODE NO.1
	5.0	BV-4203-0	045	19	27	A 700	TRIODE NO.2
5U9	6.3	FW-3782-4	000	10	83	A 3300	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	29	81	A 3000	TRIODE SECT.
5V9	5.0	FW-3741-2	000	10	48	B 1000	HEPTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	5.0	FW-8109-0	100	22	81	A 3000	TRIODE SECT.
5X9	6.3	FW-3782-4	000	10	84	A 3600	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	12	81	A 3000	TRIODE SECT.
6AB9	6.3	FW-9781-0	100	15	81	A 3000	TETRODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-3124-0	000	15	81	A 3000	TETRODE NO.2
6AC9	6.3	BU-9328-7	234	10	87	A 4200	PENTODE SECT.
	6.3	BS-0304-0	002	0	85	C -----	DIODE NO.1
	6.3	BU-0203-0	004	0	85	C -----	DIODE NO.2
6AC10	6.3	BT-9204-0	203	14	85	A 3700	TRIODE NO.1
	6.3	BS-7506-0	002	14	85	A 3700	TRIODE NO.2
	6.3	BV-4203-0	045	14	85	A 3700	TRIODE NO.3
6AD10	6.3	BU-3762-5	004	17	62	A 2900	PENTODE NO.1
	6.3	BU-8329-0	234	7	89	A 4400	PENTODE NO.2
6AF9	6.3	FW-8197-0	100	13	88	A 5000	PENTODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-1432-0	000	13	83	A 3300	PENTODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
6AF11	6.3	BV-4239-0	345	10	88	A 4900	PENTODE SECT.
	6.3	BS-6805-0	002	18	77	A 2400	TRIODE NO.1
	6.3	BS-3407-0	002	10	80	A 2800	TRIODE NO.2
6AG9	6.3	BW-5239-4	356	19	78	A 2500	PENTODE SECT.
	6.3	BS-5706-0	002	14	87	A 4600	TRIODE SECT.
6AG11	6.3	BS-5604-0	002	16	87	A 4000	TRIODE NO.1
	6.3	BS-8709-0	002	16	87	A 4000	TRIODE NO.2
	6.3	BU-0203-0	234	0	80	C -----	DIODE NO.1
	6.3	BU-0302-0	004	0	80	C -----	DIODE NO.2
6AH9	6.3	BT-5287-9	023	10	87	A 5200	PENTODE SECT.
	6.3	BV-2304-0	005	27	77	A 2350	TRIODE SECT.
6AK9	6.3	BS-8597-0	002	30	85	A 4150	PENTODE SECT.
	6.3	BU-2307-0	234	18	75	A 2400	TRIODE NO.1
	6.3	BU-3207-0	004	26	59	A 1750	TRIODE NO.2
6AL11	6.3	BU-8329-0	234	14	87	A 4300	PENTODE NO.1
	6.3	BV-3672-4	005	20	21	A 620	PENTODE NO.2
6AR11	6.3	BU-2893-7	234	10	81	A 2700	PENTODE NO.1
	6.3	BX-5236-4	007	10	81	A 2700	PENTODE NO.2
6AS11	6.3	BV-4239-0	345	10	89	A 5000	PENTODE SECT.
	6.3	BS-6805-0	002	14	86	A 3800	TRIODE NO.1
	6.3	BS-3407-0	002	16	84	A 3300	TRIODE NO.2
6AV11	6.3	BT-9204-0	203	23	79	A 2400	TRIODE NO.1
	6.3	BS-7506-0	002	23	79	A 2400	TRIODE NO.2
	6.3	BV-4203-0	045	23	79	A 2400	TRIODE NO.3
6AX3	6.3	BS-0407-0	002	0	82	D -----	
6AY3	6.3	EV-0209-0	000	0	87	D -----	
6AY11	6.3	BS-8709-0	002	20	22	A 660	TRIODE NO.1
	6.3	BS-5604-0	002	20	22	A 660	TRIODE NO.2
	6.3	BU-0203-0	234	0	77	C -----	DIODE NO.1
	6.3	BU-0302-0	004	0	77	C -----	DIODE NO.2
6B10	6.3	BS-5607-0	002	21	82	A 2500	TRIODE NO.1
	6.3	BV-3402-0	005	21	82	A 2500	TRIODE NO.2
	6.3	BT-0209-0	203	0	78	C -----	DIODE NO.1
	6.3	BS-0809-0	002	0	78	C -----	DIODE NO.2
6BA3	6.3	EV-0209-0	000	0	84	D -----	
6BA11	6.3	BS-4638-7	002	10	15	A 600	PENTODE NO.1
	6.3	BW-4238-5	006	10	15	A 600	PENTODE NO.2
	6.3	BU-9302-0	234	30	62	A 1600	TRIODE SECT.
6BD11	6.3	BV-4239-0	345	13	87	A 4500	PENTODE SECT.
	6.3	BS-6805-0	002	17	78	A 2500	TRIODE NO.1
	6.3	BS-3407-0	002	11	80	A 2750	TRIODE NO.2
6BE3	6.3	BT-0207-0	203	0	89	D -----	
6BF11	6.3	BU-8329-0	234	25	88	A 5000	PENTODE NO.1
	6.3	BU-3762-5	004	13	7	A 540	PENTODE NO.2
6BH3	6.3	EV-0209-0	000	0	87	D -----	
6BH11	6.3	BU-8293-0	234	10	84	A 3500	PENTODE SECT.
	6.3	BS-6705-0	002	18	89	A 5100	TRIODE NO.1
	6.3	BV-4302-0	005	18	89	A 5100	TRIODE NO.2
6BJ3	6.3	BT-0207-0	203	0	88	D -----	
6BK11	6.3	BT-9204-0	203	20	39	A 850	TRIODE NO.1
	6.3	BS-7506-0	002	19	7	A 550	TRIODE NO.2
	6.3	BV-4203-0	045	19	7	A 550	TRIODE NO.3
6BN11	6.3	BU-7398-2	234	10	85	A 3800	PENTODE NO.1
	6.3	BX-3542-6	007	10	85	A 3800	PENTODE NO.2
6BS3	6.3	EV-0209-0	000	0	83	D -----	
6BV11	6.3	BU-7298-3	234	10	73	A 2000	PENTODE NO.1
	6.3	BX-6345-2	007	10	73	A 2000	PENTODE NO.2
6BW11	6.3	BU-3892-7	234	07	85	A 4250	PENTODE NO.1
	6.3	BX-3542-6	007	10	82	A 3300	PENTODE NO.2
6BZ3	6.3	BT-0207-0	203	0	90	D -----	

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CA5	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
6C9	6.3	EV-7986-0	000	15	85	A 3200	TETRODE NO.1
	6.3	EV-1326-0	600	15	85	A 3200	TETRODE NO.2
6C10	6.3	BT-9204-0	203	12	58	A 1250	TRIODE NO.1
	6.3	BS-7506-0	002	12	58	A 1250	TRIODE NO.2
	6.3	BV-4203-0	045	12	58	A 1250	TRIODE NO.3
6CA11	6.3	BU-8329-7	234	20	86	A 4250	PENTODE SECT.
	6.3	BS-6405-0	002	20	73	A 2350	TRIODE NO.1
	6.3	BU-3207-0	004	20	75	A 2500	TRIODE NO.2
6CD3	6.3	BT-0207-0	203	0	91	D -----	
6CE3	6.3	BS-0407-0	002	0	91	D -----	
6CG3	6.3	BS-0407-0	002	0	91	D -----	
6CH3	6.3	EV-0209-0	000	0	91	D -----	
6CJ3	6.3	EV-0209-0	000	0	90	D -----	
6CK3	6.3	EV-0209-0	000	0	91	D -----	
6CL3	6.3	EV-0209-0	000	0	91	D -----	
6CM3	6.3	EV-0279-0	000	0	90	D -----	
6CW4	6.3	BT-4208-0	103	23	79	A 2600	
6D10	6.3	BT-9204-0	203	18	78	A 2500	TRIODE NO.1
	6.3	BS-7506-0	002	18	78	A 2500	TRIODE NO.2
	6.3	BV-4203-0	045	18	78	A 2500	TRIODE NO.3
6DS4	6.3	BT-4208-0	103	22	79	A 2600	
6DV4	6.3	CT-6107-0	203	27	88	A 4600	
6DW4	6.3	EV-0209-0	000	0	89	D -----	
6EA4	6.3	BS-0605-0	002	0	45	C -----	CAP=G ON ADAPTER
6EF4	6.3	BS-0605-9	002	0	45	C -----	CAP=G ON ADAPTER
6EH4	6.3	BS-0605-0	002	0	45	C	CAP=G ON ADAPTER.
6EJ4	6.3	BS-0605-9	002	0	45	C	CAP=G ON ADAPTER.
6FJ7	6.3	BU-2309-0	234	20	78	A 2300	TRIODE NO.1
	6.3	BS-3507-0	002	16	91	A 7000	TRIODE NO.2
6FM7	6.3	BU-2309-0	234	20	46	A 950	TRIODE NO.1
	6.3	BS-8507-0	002	62	88	A 5250	TRIODE NO.2
6FY7	6.3	BU-2309-0	234	20	32	A 800	TRIODE NO.1
	6.3	BS-3507-0	002	54	92	A 6500	TRIODE NO.2
6G11	6.3	BU-8329-0	234	19	90	A 5600	PENTODE NO.1
	6.3	BV-3672-4	005	10	10	A 500	PENTODE NO.2
6GA7	6.3	BS-4735-0	002	58	89	A 4500	PENTODE SECT.
	6.3	BT-0208-0	023	0	85	D -----	DIODE SECT.
6GE5	6.3	BV-4723-0	345	48	90	A 6000	
6GF5	6.3	BV-4723-0	345	54	89	A 4800	
6GF7	6.3	EV-9801-0	000	19	35	A 700	TRIODE NO.1
	6.3	EV-2603-0	000	57	91	A 7200	TRIODE NO.2
6GJ5	6.3	EV-6073-0	000	28	91	B 6600	CAP=P ON ADAPTER
6GT5	6.3	EV-6973-0	000	28	91	B 6600	
6GV5	6.3	BU-9032-0	234	44	91	A 7000	CAP=P ON ADAPTER
6GY5	6.3	BT-5072-0	203	30	92	B 9000	CAP=P ON ADAPTER
6HB5	6.3	BV-4723-0	345	57	89	A 5600	
6HD5	6.3	BU-3792-0	234	54	89	A 6000	
6HE5	6.3	BU-9623-0	234	23	87	A 4500	
6HE7	6.3	BT-9528-0	023	54	91	A 7000	PENTODE SECT.
	6.3	BT-0204-0	003	0	89	D -----	DIODE SECT.
6HF5	6.3	BU-9032-0	234	62	88	A 4300	CAP=P ON ADAPTER
6HJ5	6.3	BV-4792-3	345	54	90	A 6500	
6HS5	6.3	BV-2704-3	005	0	88	A 4500	
6J9	6.3	EV-7801-0	100	17	81	A 3000	TRIODE NO.1
	6.3	EV-9601-0	100	17	81	A 3000	TRIODE NO.2
	6.3	EV-2103-0	000	17	81	A 3000	TRIODE NO.3
6J10	6.3	BS-7468-5	002	6	27	B 700	PENTODE NO.1
	6.3	BV-4923-0	045	16	88	A 4350	PENTODE NO.2
6J11	6.3	BU-3978-2	234	10	57	A 4000	PENTODE NO.1
	6.3	BX-5326-4	007	10	57	A 4000	PENTODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	CAS	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
6JB6	6.3	EV-2013-8	000	28	91	B 6600	CAP=P ON ADAPTER
6JE6	6.3	EV-2073-8	000	39	92	B 8100	CAP=P ON ADAPTER
6JF6	6.3	EV-2073-8	000	32	92	B 7800	CAP=P ON ADAPTER
6JG6	6.3	EV-2973-6	000	32	92	B 7800	
6JM6	6.3	BW-5032-4	406	43	91	A 7000	CAP=P ON ADAPTER
6JN6	6.3	BW-5732-4	056	43	91	A 7000	
6JR6	6.3	EV-2913-6	000	72	85	A 4200	
6JS6A	6.3	BW-5032-4	006	53	88	A 4300	CAP=P ON ADAPTER
6JT6	6.3	EV-2973-6	000	44	91	A 7000	
6JU6	6.3	EV-2013-8	000	65	85	A 4200	CAP=P ON ADAPTER
6JZ6	6.3	BW-5032-4	006	56	91	A 7000	CAP=P ON ADAPTER
6JZ8	6.3	BS-7489-0	002	25	88	A 5000	PENTODE SECT.
	6.3	BV-3204-0	345	29	65	A 1350	TRIODE SECT.
6K11	6.3	BT-9204-8	203	24	75	A 2200	TRIODE NO.1
	6.3	BS-7506-8	002	12	58	A 1250	TRIODE NO.2
	6.3	BV-4203-8	045	12	58	A 1250	TRIODE NO.3
6KD6	6.3	BW-5032-4	006	70	90	A 6400	CAP=P ON ADAPTER
6KM6	6.3	EV-2073-8	000	65	89	A 5000	CAP=P ON ADAPTER
6KN6	6.3	BW-5032-4	006	60	88	A 4500	CAP=P ON ADAPTER
6KY8	6.3	EV-2673-0	000	41	88	A 5000	PENTODE SECT.
	6.3	EV-9801-0	000	22	15	A 600	TRIODE SECT.
6LB6	6.3	BW-5032-4	006	36	91	B 9650	CAP=P ON ADAPTER.
6LF6	6.3	BW-5032-4	006	69	85	A 4350	CAP=P ON ADAPTER.
6LG6	6.3	BT-5024-0	023	64	86	A 4650	CAP=P ON ADAPTER.
6LR6	6.3	BW-5032-4	006	85	73	A 2250	CAP=P ON ADAPTER
6LR8	6.3	EV-2673-0	000	40	87	A 4000	PENTODE SECT.
	6.3	EV-9801-0	000	24	62	A 1400	TRIODE SECT.
6LU8	6.3	BS-6489-0	002	40	87	A 4000	PENTODE SECT.
	6.3	BV-3204-0	345	24	62	A 1400	TRIODE SECT.
6M11	6.3	BW-2534-0	456	11	86	A 3750	PENTODE SECT.
	6.3	BS-8709-0	002	20	82	A 3000	TRIODE NO.1
	6.3	BS-5604-0	002	20	82	A 3000	TRIODE NO.2
6MD8	6.3	EV-6307-0	000	20	85	A 3500	TRIODE NO.1
	6.3	EV-8207-0	000	20	85	A 3500	TRIODE NO.2
	6.3	EV-9107-0	000	20	85	A 3500	TRIODE NO.3
6MF8	6.3	BS-7489-0	002	30	84	A 4000	PENTODE SECT.
	6.3	BV-3204-0	345	23	66	A 1900	TRIODE SECT.
6MJ8	6.3	BV-4203-0	045	27	78	A 2800	TRIODE NO.1.
	6.3	BV-2403-0	205	27	78	A 2800	TRIODE NO.2.
	6.3	BS-8603-0	002	27	78	A 2800	TRIODE NO.3
6MN8	6.3	BS-8603-0	002	25	68	A 2150	TRIODE NO.1
	6.3	BV-2403-0	205	25	68	A 2150	TRIODE NO.2
	6.3	BV-4203-0	045	25	68	A 2150	TRIODE NO.3
6N-H10	6.3	BT-4208-0	103	18	58	A 2700	
6N-L7	6.3	BT-4208-0	103	67	40	A 1050	
6Q11	6.3	BT-9204-8	203	24	75	A 2200	TRIODE NO.1
	6.3	BS-7506-8	002	12	58	A 1250	TRIODE NO.2
	6.3	BV-4203-8	045	12	58	A 1250	TRIODE NO.3
6T9	6.3	BU-8329-0	234	15	87	A 4500	PENTODE SECT.
	6.3	BT-4205-0	003	19	36	A 950	TRIODE SECT.
6T10	6.3	BU-8329-0	234	19	88	A 4500	PENTODE NO.1
	6.3	BU-3762-5	004	14	21	B 630	PENTODE NO.2
6U9	6.3	FW-3782-4	000	10	83	A 3300	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	29	81	A 3000	TRIODE SECT.
6U10	6.3	BT-9204-0	203	26	74	A 1900	TRIODE NO.1
	6.3	BS-7506-0	002	19	14	A 575	TRIODE NO.2
	6.3	BV-4203-0	045	26	74	A 1900	TRIODE NO.3

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
6V9	6.3	FW-3741-2	000	10	48	B 1000	HEPTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-8109-0	100	22	81	A 3000	TRIODE SECT.
6X9	6.3	FW-3782-4	000	10	84	A 3600	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	12	81	A 3000	TRIODE SECT.
6Y9	6.3	FW-8197-0	100	13	88	A 5000	PENTODE NO.1 . USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-1432-0	000	13	83	A 3300	PENTODE NO.2
6Y10	6.3	BU-8329-0	234	20	86	A 4000	PENTODE NO.1
	6.3	BU-3762-5	004	12	67	A 1600	PENTODE NO.2
6Z10	6.3	BS-7468-5	002	6	27	B 700	PENTODE NO.1
	6.3	BV-4923-0	045	16	88	A 4350	PENTODE NO.2
8AC9	7.5	BU-9328-7	234	10	87	A 4200	PENTODE SECT.
	7.5	BS-0304-0	002	0	85	C -----	DIODE NO.1
	7.5	BU-0203-0	004	0	85	C -----	DIODE NO.2
8AC10	10.0	BT-9204-0	203	10	80	A 3000	TRIODE NO.1 MAKE =LINE TEST= AT 1240 ON 3000 SCALE
	10.0	BS-7506-0	002	10	80	A 3000	TRIODE NO.2
	10.0	BV-4203-0	045	10	80	A 3000	TRIODE NO.3
8AR11	7.5	BU-2893-7	234	10	81	A 2700	PENTODE NO.1
	7.5	BX-5236-4	007	10	81	A 2700	PENTODE NO.2
8B10	7.5	BS-5607-0	002	28	75	A 2000	TRIODE NO.1 SET =LINE ADJUST= TO 1700 ON 3000 SCALE.
	7.5	BV-3402-0	005	28	75	A 2000	TRIODE NO.2
	7.5	BT-0209-0	203	0	76	C -----	DIODE NO.1
	7.5	BS-0809-0	002	0	76	C -----	DIODE NO.2
8BA11	7.5	BS-4638-7	002	10	15	A 600	PENTODE NO.1
	7.5	BW-4238-5	006	10	15	A 600	PENTODE NO.2
	7.5	BU-9302-0	234	30	62	A 1600	TRIODE SECT.
8BM11	7.5	BU-3792-8	234	10	85	A 3700	PENTODE NO.1
	7.5	BX-6235-4	007	13	84	A 3500	PENTODE NO.2
8BN11	7.5	BU-7398-2	234	10	85	A 3800	PENTODE NO.1
	7.5	BX-3542-6	007	10	85	A 3800	PENTODE NO.2
8BQ11	7.5	BU-2893-7	234	5	85	A 4000	PENTODE NO.1
	7.5	BX-5236-4	007	5	89	A 5000	PENTODE NO.2
8BU11	7.5	BU-8293-0	234	10	85	A 3800	PENTODE SECT.
	7.5	BS-6705-0	002	15	89	A 5000	TRIODE NO.1
	7.5	BV-4302-0	005	15	89	A 5000	TRIODE NO.2
8U9	7.5	FW-3782-4	000	10	83	A 3300	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	7.5	FW-2901-0	200	29	81	A 3000	TRIODE SECT.
8X9	7.5	FW-3782-4	000	10	84	A 3600	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	7.5	FW-2901-0	200	12	81	A 3000	TRIODE SECT.
9BJ11	10.0	BU-3792-8	234	10	66	A 1600	PENTODE NO.1
	10.0	BX-6235-4	007	13	84	A 3300	PENTODE NO.2
9V9	10.0	FW-3741-2	000	10	48	B 1000	HEPTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177'
	10.0	FW-8109-0	100	22	81	A 3000	TRIODE SECT.
10AL11	10.0	BU-8329-0	234	14	87	A 4300	PENTODE NO.1
	10.0	BV-3672-4	005	20	21	A 620	PENTODE NO.2
10GF7	10.0	EV-9801-0	000	19	35	A 700	TRIODE NO.1
	10.0	EV-2603-0	000	57	91	A 7200	TRIODE NO.2
10J10	10.0	BS-7468-5	002	6	27	B 700	PENTODE NO.1
	10.0	BV-4923-0	045	16	88	A 4350	PENTODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	CAS	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
11AR11	10.0	BU-2893-7	234	10	81	A 2700	PENT. NO.1
	10.0	BX-5236-4	007	10	81	A 2700	PENT. NO.2
11BQ11	12.6	BU-2893-7	234	10	85	A 3500	PENTODE NO.1. SET =LINE ADJUST= TO 1400 ON 3000 SCALE.
	12.6	BX-5236-4	007	10	87	A 4000	PENTODE NO.2
11BT11	10.0	BV-4238-6	345	13	89	A 6000	PENTODE SECT.
	10.0	BS-5706-0	002	16	77	A 2800	TRIODE NO.1
	10.0	BS-3904-0	002	23	78	A 3000	TRIODE NO.2
11CA11	10.0	BU-8329-7	234	20	86	A 4250	PENTODE SECT.
	10.0	BS-6405-0	002	20	73	A 2350	TRIODE NO.1
	10.0	BU-3207-0	004	20	75	A 2500	TRIODE NO.2
11FY7	10.0	BU-2309-0	234	20	32	A 800	TRIODE NO.1
	10.0	BS-3507-0	002	54	92	A 6500	TRIODE NO.2
11Y9	10.0	FW-8197-0	100	13	88	A 5000	PENTODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	10.0	FW-1432-0	000	13	83	A 3300	PENTODE NO.2
12AE10	12.6	BU-8329-0	234	23	82	A 3200	PENTODE NO.1
	12.6	BU-3762-5	004	22	35	A 800	PENTODE NO.2
12AL11	12.6	BU-8329-0	234	14	87	A 4300	PENT. NO.1
	12.6	BV-3672-4	005	20	21	A 620	PENT. NO.2
12AX3	12.6	BS-0407-0	002	0	82	D -----	
12AY3	12.6	EV-0209-0	000	0	87	D -----	
12BE3	12.6	BT-0207-0	203	0	89	D -----	
12BF11	12.6	BU-8329-0	234	25	88	A 5000	PENTODE NO.1
	12.6	BU-3762-5	004	13	7	A 540	PENTODE NO.2
12BS3	12.6	EV-0209-0	000	0	83	D -----	
12BT3	12.6	BS-0407-0	002	0	88	D -----	
12BV11	12.6	BU-7298-3	234	10	73	A 2000	PENTODE NO.1
	12.6	BX-6345-2	007	10	73	A 2000	PENTODE NO.2
12CK3	12.6	EV-0209-0	000	0	91	D -----	
12CL3	12.6	EV-0209-0	000	0	91	D -----	
12DW4A	12.6	EV-0209-0	000	0	89	D	
12G11	12.6	BU-8329-0	234	19	90	A 5600	PENTODE NO.1
	12.6	BV-3672-4	005	10	10	A 500	PENTODE NO.2
12GE5	12.6	BV-4723-0	345	48	90	A 6000	
12GJ5	12.6	EV-6073-0	000	28	91	B 6600	CAP=P ON ADAPTER
12GT5	12.6	EV-6973-0	000	28	91	B 6600	
12GV5	12.6	BU-9032-0	234	44	91	A 7000	CAP=P ON ADAPTER
12HE7	12.6	BT-9528-0	023	54	91	A 7000	PENTODE SECT.
	12.6	BT-0204-0	003	0	89	D -----	DIODE SECT.
12JB6	12.6	EV-2013-8	000	28	91	B 6600	CAP=P ON ADAPTER
12JM6	12.6	BW-5732-4	056	43	91	A 7000	
12JS6A	12.6	BW-5032-4	006	53	88	A 4300	CAP=P ON ADAPTER
12JT6	12.6	EV-2973-6	000	44	91	A 7000	
12MD8	12.6	EV-6307-0	000	20	85	A 3500	TRIODE NO.1
	12.6	EV-8207-0	000	20	85	A 3500	TRIODE NO.2
	12.6	EV-9107-0	000	20	85	A 3500	TRIODE NO.3
12T10	12.6	BU-8329-0	234	19	88	A 4500	PENTODE NO.1
	12.6	BU-3762-5	004	14	21	B 630	PENTODE NO.2
13CW4	12.6	BT-4208-0	103	23	79	A 2600	
13FM7	12.6	BU-2309-0	234	20	46	A 950	TRIODE NO.1
	12.6	BS-8507-0	002	62	88	A 5250	TRIODE NO.2
13GF7	12.6	EV-9801-0	000	19	35	A 700	TRIODE NO.1
	12.6	EV-2603-0	000	57	91	A 7200	TRIODE NO.2
13J10	12.6	BS-7468-5	002	6	27	B 700	PENTODE NO.1
	12.6	BV-4923-0	045	16	88	A 4350	PENTODE NO.2
13JZ8	12.6	BS-7489-0	002	25	88	A 5000	PENTODE SECT.
	12.6	BV-3204-0	345	29	65	A 1350	TRIODE SECT.

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
13V10	12.6	BU-8329-0	234	21	87	A 4200	PENTODE NO.1
	12.6	BU-3762-5	004	24	0	A 500	PENTODE NO.2
13Z10	12.6	BS-7468-5	002	6	27	B 700	PENTODE NO.1
	12.6	BV-4923-0	045	16	88	A 4350	PENTODE NO.2
14BL11	12.6	BV-4238-0	345	13	90	A 5500	PENTODE SECT.
	12.6	BS-5706-0	002	14	82	A 3000	TRIODE NO.1
	12.6	BS-3904-0	002	22	82	A 3000	TRIODE NO.2
14BR11	12.6	BW-2534-0	056	10	89	A 4750	PENTODE SECT.
	12.6	BS-8605-0	002	17	81	A 2600	TRIODE NO.1
	12.6	BT-2907-0	203	14	82	A 3000	TRIODE NO.2
15AB9	17.0	FW-9781-0	100	15	81	A 3000	TETRODE NO.1.USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	17.0	FW-3124-0	000	15	81	A 3000	TETRODE NO.2.USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
15AF11	12.6	BV-4239-0	345	8	90	A 5400	PENT. SECT. SET=LINE ADJUST= AT 1450 ON 3000 SCALE.
	12.6	BS-6805-0	002	17	81	A 2700	TRIODE NO.1
	12.6	BS-3407-0	002	13	82	A 2800	TRIODE NO.2
15BD11	17.0	BV-4239-0	345	12	87	A 4500	PENT. SECT. SET =LINE ADJUST= AT 1400 ON 3000 SCALE.
	17.0	BS-6805-0	002	13	78	A 2500	TRIODE NO.1
	17.0	BS-3407-0	002	10	80	A 2750	TRIODE NO.2
15FM7	12.6	BU-2309-0	234	22	46	A 950	TRIODE NO.1. SET =LINE ADJUST= AT 1700 ON 3000 SCALE.
	12.6	BS-8507-0	002	64	88	A 5250	TRIODE NO.2
15FY7	12.6	BU-2309-0	234	18	33	A 750	TRIODE NO.1. SET =LINE ADJUST= AT 1450 ON 3000 SCALE.
	12.6	BS-3507-0	002	47	91	A 6500	TRIODE NO.2
15KY8	17.0	EV-2673-0	000	42	80	A 2550	PENT. SECT. SET =LINE ADJUST= AT 1425 ON 3000 SCALE.
	17.0	EV-9801-0	000	19	27	A 700	TRIODE SECT.
16AK9	17.0	BS-8597-0	002	30	85	A 4150	PENTODE SECT.
	17.0	BU-2307-0	234	18	75	A 2400	TRIODE NO.1.
	17.0	BU-3207-0	004	26	59	A 1750	TRIODE NO.2.
16GY5	17.0	BU-9032-0	234	30	92	B 9000	CAP=P ON ADAPTER
16KA6	17.0	BW-5032-4	206	57	89	A 5500	CAP=P ON ADAPTER
16Y9	17.0	FW-8197-0	100	13	88	A 5000	PENTODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	17.0	FW-1432-0	000	13	83	A 3300	PENTODE NO.2
17AB9	17.0	FW-9781-0	100	15	81	A 3000	TETRODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	17.0	FW-3124-0	000	15	81	A 3000	TETRODE NO.2
17AB10	17.0	BS-7468-5	002	6	27	B 700	LIMITER GRID
	17.0	BS-5468-7	002	13	0	B 500	QUADRATURE GRID
	17.0	BV-4923-0	045	25	83	A 3100	PENTODE NO.2
17AX3	17.0	BS-0407-0	002	0	82	D -----	
17AY3	17.0	EV-0209-0	000	0	87	D -----	
17BE3	17.0	BT-0207-0	203	0	89	D -----	
17BF11	17.0	BU-8329-0	234	25	88	A 5000	PENTODE NO.1
	17.0	BU-3762-5	004	13	7	A 550	PENTODE NO.2
17BH3	17.0	EV-0209-0	000	0	87	D -----	
17BS3	17.0	EV-0209-0	000	0	83	D -----	
17BZ3	17.0	BT-0207-0	203	0	90	D -----	
17C9	17.0	EV-7986-0	000	15	85	A 3200	TETRODE NO.1
	17.0	EV-1326-0	600	15	85	A 3200	TETRODE NO.2
17CK3	17.0	EV-0209-0	000	0	91	D -----	
17CL3	17.0	EV-0209-0	000	0	91	D -----	
17DW4A	17.0	EV-0209-0	000	0	91	D	

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
17GE5	17.0	BV-4723-0	345	48	90	A 6000	
17GJ5	17.0	EV-6073-0	000	28	91	B 6600	CAP=P ON ADAPTER
17GT5	17.0	EV-6973-0	000	28	91	B 6600	
17GV5	17.0	BU-9032-0	234	44	91	A 7000	CAP=P ON ADAPTER
17JB6	17.0	EV-2013-8	000	28	91	B 6600	CAP=P ON ADAPTER
17JG6	17.0	EV-2973-6	000	32	92	B 7800	
17JM6	17.0	BW-5032-4	406	43	91	A 7000	CAP=P ON ADAPTER
17JN6	17.0	BW-5732-4	056	43	91	A 7000	
17JT6	17.0	EV-2973-6	000	44	91	A 7000	
17JZ8	17.0	BS-7489-0	002	33	88	A 5000	PENTODE SECT.
	17.0	BV-3204-0	345	31	57	A 1350	TRIODE SECT.
17LD8	17.0	EV-2673-0	000	35	91	A 4800	PENTODE SECT.
	17.0	EV-9801-0	000	31	73	A 1300	TRIODE SECT.
17X10	17.0	BS-7468-5	002	6	27	B 700	LIMITER GRID
	17.0	BS-5468-7	002	13	0	B 500	QUADRATURE GRID
	17.0	BV-4923-0	045	25	83	A 3100	PENTODE NO.2
19CG3	20.0	BS-0407-0	002	0	91	D -----	
1909	20.0	EV-1327-6	700	10	82	A 3100	PENTODE SECT.
	20.0	EV-8907-6	000	18	87	A 4600	TRIODE SECT.
21GY5	20.0	BT-5072-0	203	30	92	B 9000	CAP=P ON ADAPTER
21HB5	20.0	BV-4723-0	345	57	89	A 5600	
21HD5	20.0	BU-3792-0	234	54	89	A 6000	
21HJ5	20.0	BV-4792-3	345	54	90	A 6500	
21JV6	20.0	BW-5732-4	456	55	91	A 7000	
21JZ6	20.0	BW-5032-4	006	56	91	A 7000	CAP=P ON ADAPTER
21KA6	20.0	BW-5032-4	206	57	89	A 5500	CAP=P ON ADAPTER
21LG6	20.0	BT-5024-0	023	64	86	A 4650	CAP=P ON ADAPTER.
21LR8	20.0	EV-2673-0	000	40	87	A 4000	PENTODE SECT.
	20.0	EV-9801-0	000	24	62	A 1400	TRIODE SECT.
21LU8	20.0	BS-6489-0	002	40	87	A 4000	PENTODE SECT.
	20.0	BV-3204-0	345	24	62	A 1400	TRIODE SECT.
22BH3	20.0	EV-0209-0	000	0	87	D -----	SET =LINE ADJUST= AT 1800 ON 3000 SCALE.
22BW3	20.0	BT-0207-0	203	0	89	D -----	
22JF6	20.0	EV-2073-8	000	32	92	B 7800	CAP=P ON ADAPTER
22JG6	20.0	EV-2973-6	000	32	92	B 7800	
22JR6	20.0	EV-2913-6	000	72	85	A 4200	
22JU6	20.0	EV-2073-8	000	65	85	A 4200	CAP=P ON ADAPTER
22KM6	20.0	EV-2073-8	000	65	89	A 5000	CAP=P ON ADAPTER
23JS6A	25.0	BW-5032-4	006	53	88	A 4300	CAP=P ON ADAPTER.
23Z9	25.0	BS-8597-0	002	35	88	A 5000	PENTODE SECT.
	25.0	BU-2307-0	234	20	76	A 2200	TRIODE NO.1
	25.0	BU-3207-0	004	30	69	A 1800	TRIODE NO.2
24BF11	25.0	BU-8329-0	234	25	88	A 5000	PENTODE NO.1.
	25.0	BU-3762-5	004	19	7	A 600	PENTODE NO.2.
24GA7	25.0	BS-4735-0	002	58	89	A 4500	PENTODE SECT.
	25.0	BT-0208-0	023	0	85	D -----	DIODE SECT.
24JE6A	25.0	EV-2073-8	000	39	92	B 8100	CAP=P ON ADAPTER
24JZ8	25.0	BS-7489-0	002	32	86	A 4150	PENTODE SECT.
	25.0	BV-3204-0	345	29	60	A 1500	TRIODE SECT.
25CG3	25.0	BS-0407-0	002	0	91	D -----	
25CM3	25.0	EV-0279-0	000	0	90	D -----	
28HD5	25.0	BU-3792-0	234	54	89	A 6000	
30AG11	35.0	BS-5604-0	002	15	87	A 4000	TRIODE NO.1. SET =LINE ADJUST= AT 1350 ON 3000 SCALE.
	35.0	BS-8709-0	002	15	87	A 4000	TRIODE NO.2
	35.0	BU-0203-0	234	0	76	C -----	DIODE NO.1
	35.0	BU-0302-0	004	0	76	C -----	DIODE NO.2
30HJ5	25.0	BV-4792-3	345	54	90	A 6500	

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CA5	BIAS	SHUNT	FUNCT AND MUT.COND	NOTATIONS
30KD6	35.0	BW-5032-4	006	85	40	A 1000	CAP=P ON ADAPTER. SET =LINE ADJUST= AT 1270 ON 3000 SCALE
31JS6A	35.0	BW-5032-4	006	53	88	A 4300	CAP=P ON ADAPTER
32GA7	35.0	BS-4735-0	002	58	89	A 4500	PENTODE SECT.
	35.0	BT-0208-0	023	0	85	D -----	DIODE SECT.
33GT7	35.0	BU-3528-0	234	31	91	B 6000	PENTODE SECT.
	35.0	BT-0204-0	003	0	95	D -----	DIODE SECT.
33GY7	35.0	BU-2538-0	234	31	91	B 6000	PENTODE SECT.
	35.0	BT-0204-0	003	0	95	D -----	DIODE SECT.
33JV6	35.0	BW-5732-4	456	55	91	A 7000	
34CD3	35.0	BT-0207-0	203	0	93	D -----	
34CE3	35.0	BS-0407-0	002	0	86	C -----	
34CM3	35.0	EV-0279-0	000	0	90	D -----	
35LR6	35.0	BW-5032-4	006	85	73	A 2250	CAP=P ON ADAPTER
36KD6	35.0	BW-5032-4	006	70	90	A 6400	CAP=P ON ADAPTER
38HE7	35.0	BT-9528-0	023	59	86	A 4150	PENTODE SECT.
	35.0	BT-0204-0	003	0	91	D -----	DIODE SECT.
38HK7	35.0	BT-9528-0	023	55	90	A 6000	PENTODE SECT.
	35.0	BT-0204-0	003	0	89	D -----	DIODE SECT.
40KD6	35.0	BW-5032-4	006	70	90	A 6400	CAP=P ON ADAPTER
42KN6	50.0	BW-5032-4	006	60	89	A 500	CAP=P ON ADAPTER
53HK7	50.0	BT-9528-0	023	55	90	A 6000	PENTODE SECT.
	50.0	BT-0204-0	003	0	89	D	DIODE SECT.
58HE7	50.0	BT-9528-0	023	54	91	A 7000	PENTODE SECT.
	50.0	BT-0204-0	003	0	89	D -----	DIODE SECT.
7586	6.3	BT-4208-0	103	28	78	A 2500	
7587	6.3	BT-4028-0	103	11	85	B 3800	CAP=P ON ADAPTER
7868	6.3	EV-6973-0	000	18	89	A 5200	
7895	6.3	BT-4208-0	103	22	82	A 3200	
7984	12.6	BV-2349-0	245	42	87	A 4050	
8056	6.3	BT-4208-0	103	10	75	C -----	OK ABOVE 1300 ON 3000 SCALE.
8058	6.3	BS-0008-0	102	19	85	A 3800	CAP=P, SHELL=G ON ADAPTER
8149	12.6	BT-2789-0	203	44	88	A 4500	
8150	12.6	BT-2086-0	203	44	88	A 4500	CAP=P ON ADAPTER
8156	12.6	BU-2376-0	204	25	90	A 5000	
8203	6.3	BT-4208-0	103	29	78	A 2400	
8393	12.6	BT-4208-0	103	27	85	A 3700	
8458	12.6	EV-3872-0	000	20	83	A 3300	TETRODE NO.1. NOTE 4# 1-,2+
	12.6	EV-1672-0	000	20	83	A 3300	TETRODE NO.2. NOTE 4# 3-,2+
8628	6.3	BT-4208-0	103	12	0	A 500	
ECC2000	6.3	FW-8709-1	000	26	86	A 4000	TRIODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-3402-1	400	26	86	A 4000	TRIODE NO.2
H-1112	2.0	BT-4028-0	103	11	85	B 3800	CAP=P ON ADAPTER.
H-1208	6.3	BT-4208-0	103	28	78	A 4500	
N30EL	6.3	BW-5032-4	006	69	85	A 4350	CAP=P ON ADAPTER.